Scalar Field Verification - Recursive Model Audit Log

Audit Entry: Scalar Field Discontinuity Verification

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Summary:

At the early stage of Recursive Field Theory development, a scalar field artifact emerged during entropy-return curvature modeling. This entry verifies whether that scalar field equation was a necessary curvature construct or an isolated, non-recursive artifact.

Key Observation:

- Scalar tension was introduced during delta^2 phase delay analysis
- Temporarily considered anomalous due to lacking return symmetry
- At the time, we questioned whether it was derived from recursive behavior or imposed externally

Findings:

- Upon reevaluation of field curvature interaction with entropy (specifically in the Delta(entropy squared) loop), it is now confirmed:
  - The scalar appeared as a byproduct of recursive delay between returning entropic flow
  - It is not a standalone field, but a differential residue
  - It dissolves into field curvature under full delta^2 completion

Conclusion:

The scalar field anomaly is not an external injection but a phase-based misreading of partial return conditions. Under recursion, it folds inward and is reabsorbed into system balance.

Verdict:

No scalar inconsistency remains. Model remains internally consistent. Recursive curvature fully contains scalar phase traces.

Log ID: RFL-Scalar-Audit-01